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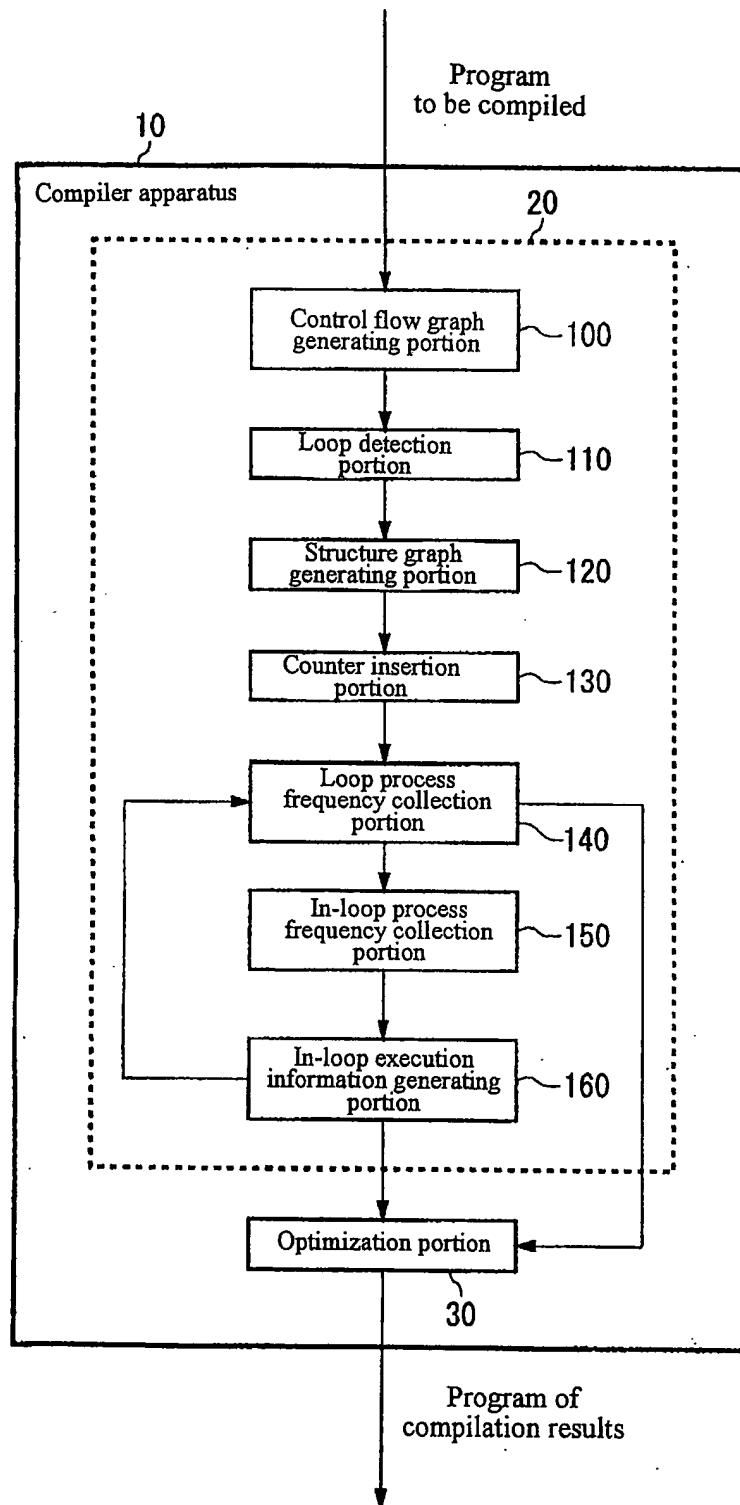
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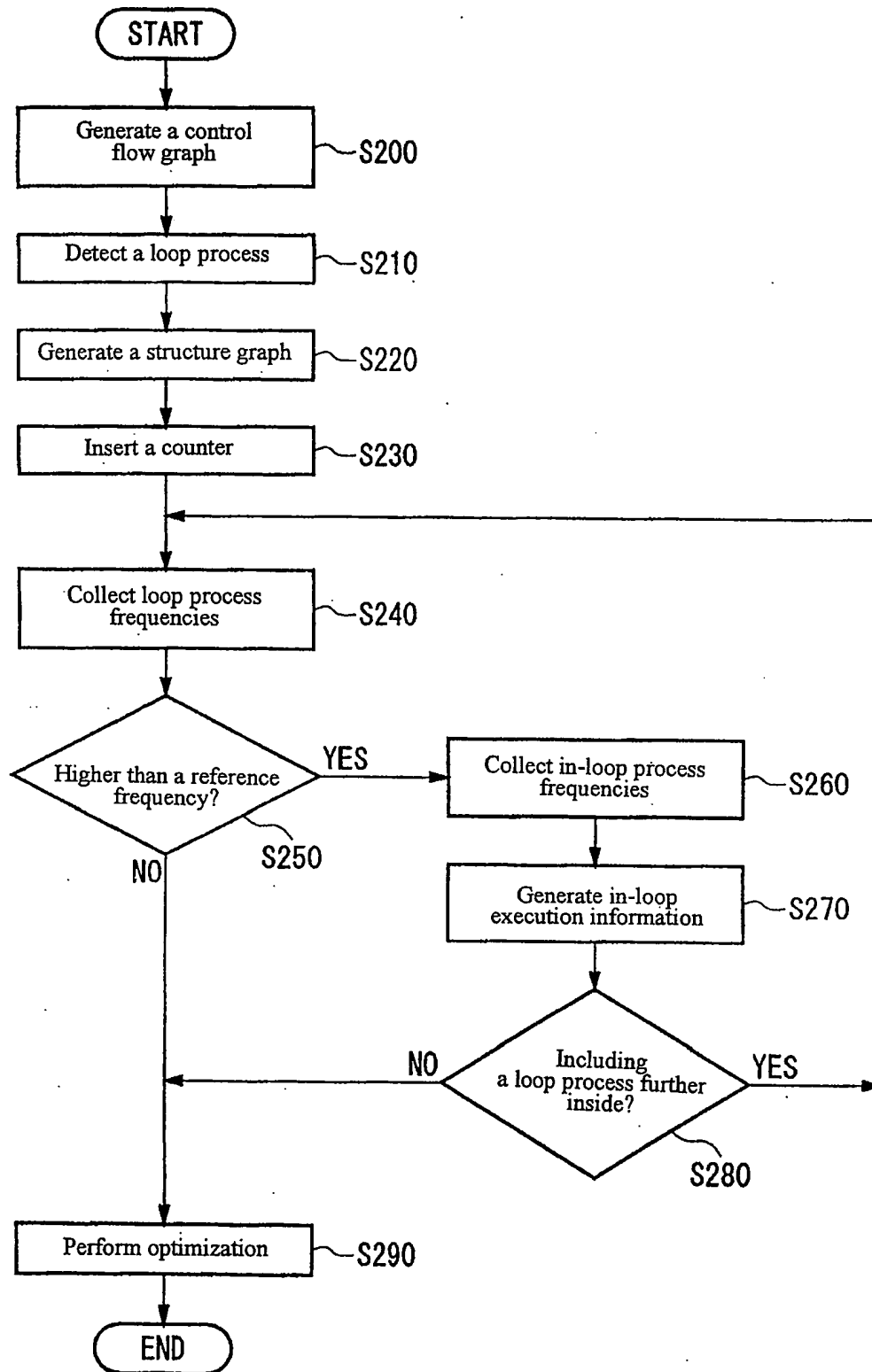
[Figure 1]

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[Figure 2]

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[Figure 3]

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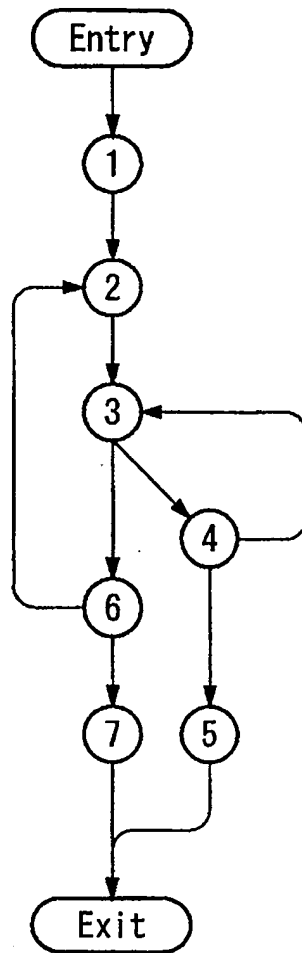
```

1: public void m()
2: {
3:     ... ..... First basic block
4:     do {
5:         ... ..... Second basic block
6:         while (...) { ..... Third basic block
7:             ... }
8:             if (...) } ..... Fourth basic block
9:             return; ..... Fifth basic block
10:    }
11:    ... }
12:    } while (...) } ..... Sixth basic block
13:    ... ..... Seventh basic block
14: }

```

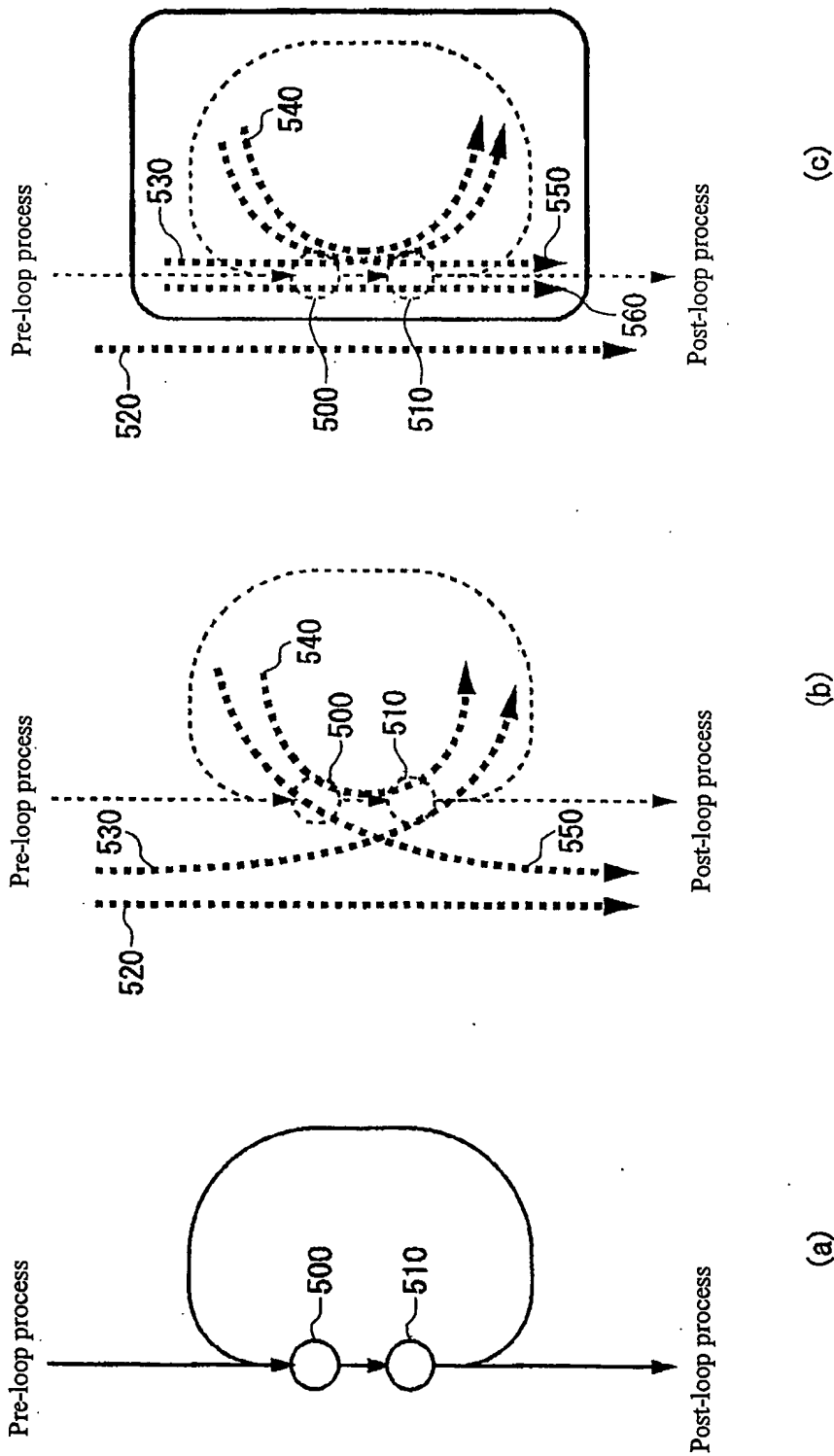
[Figure 4]

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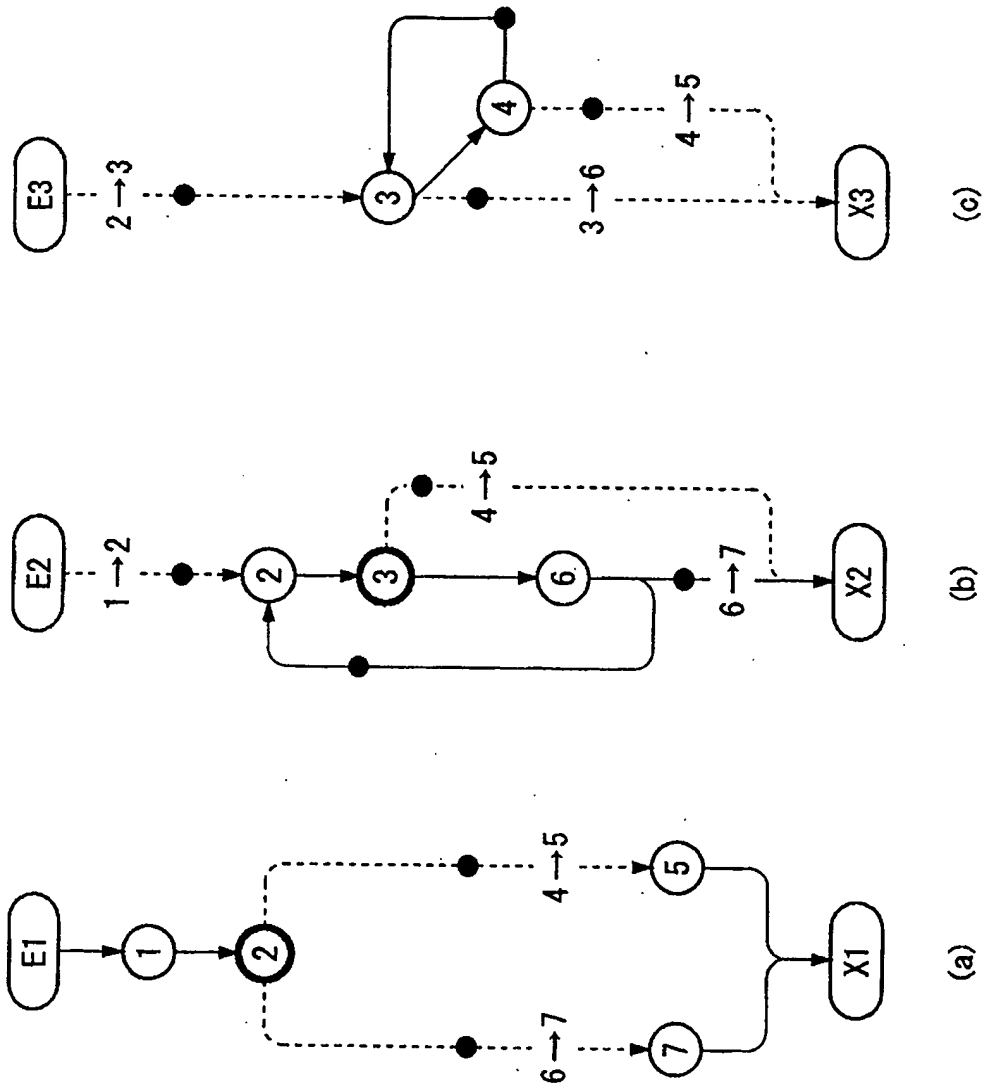
[Figure 5]

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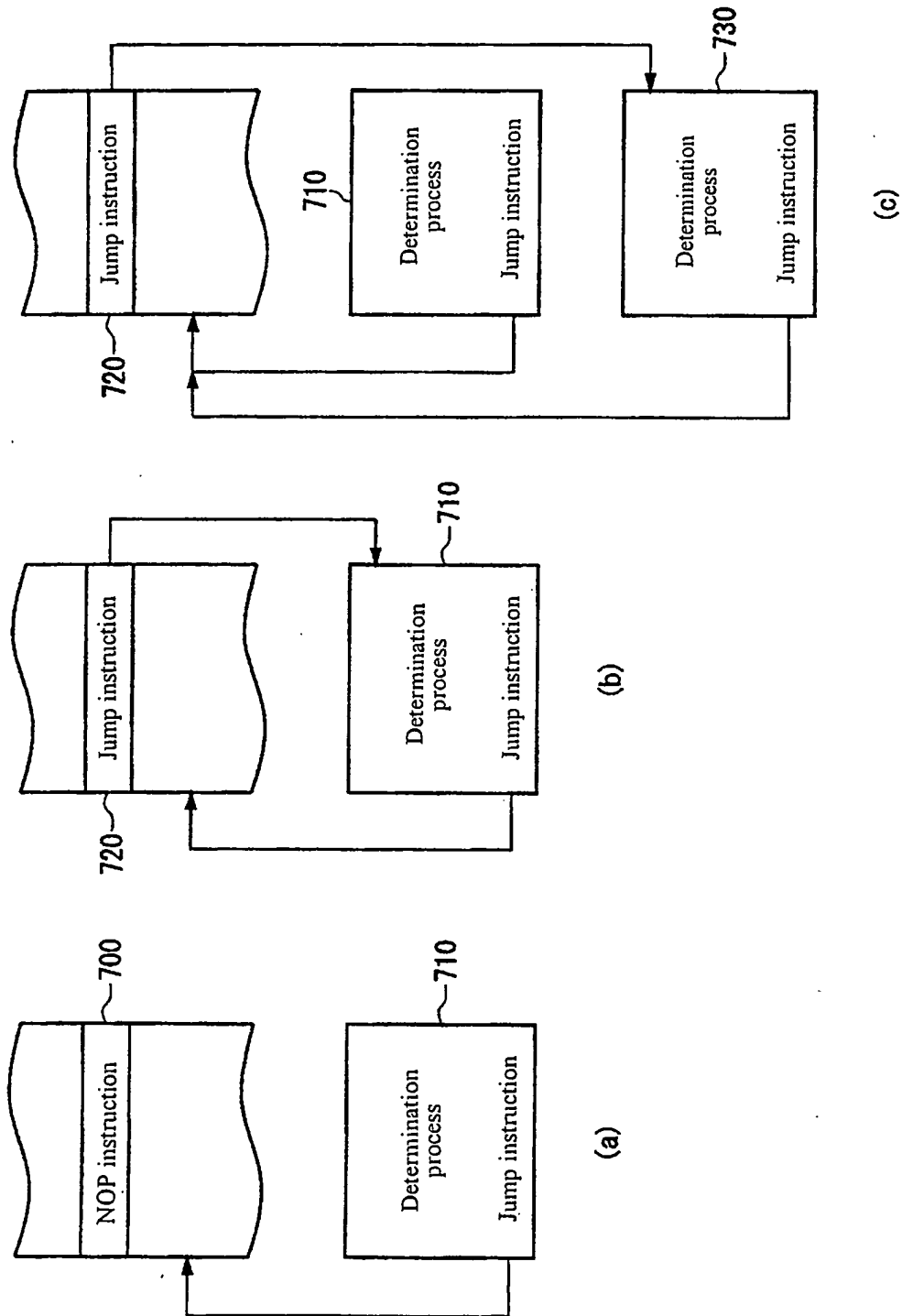
[Figure 6]

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[Figure 7]

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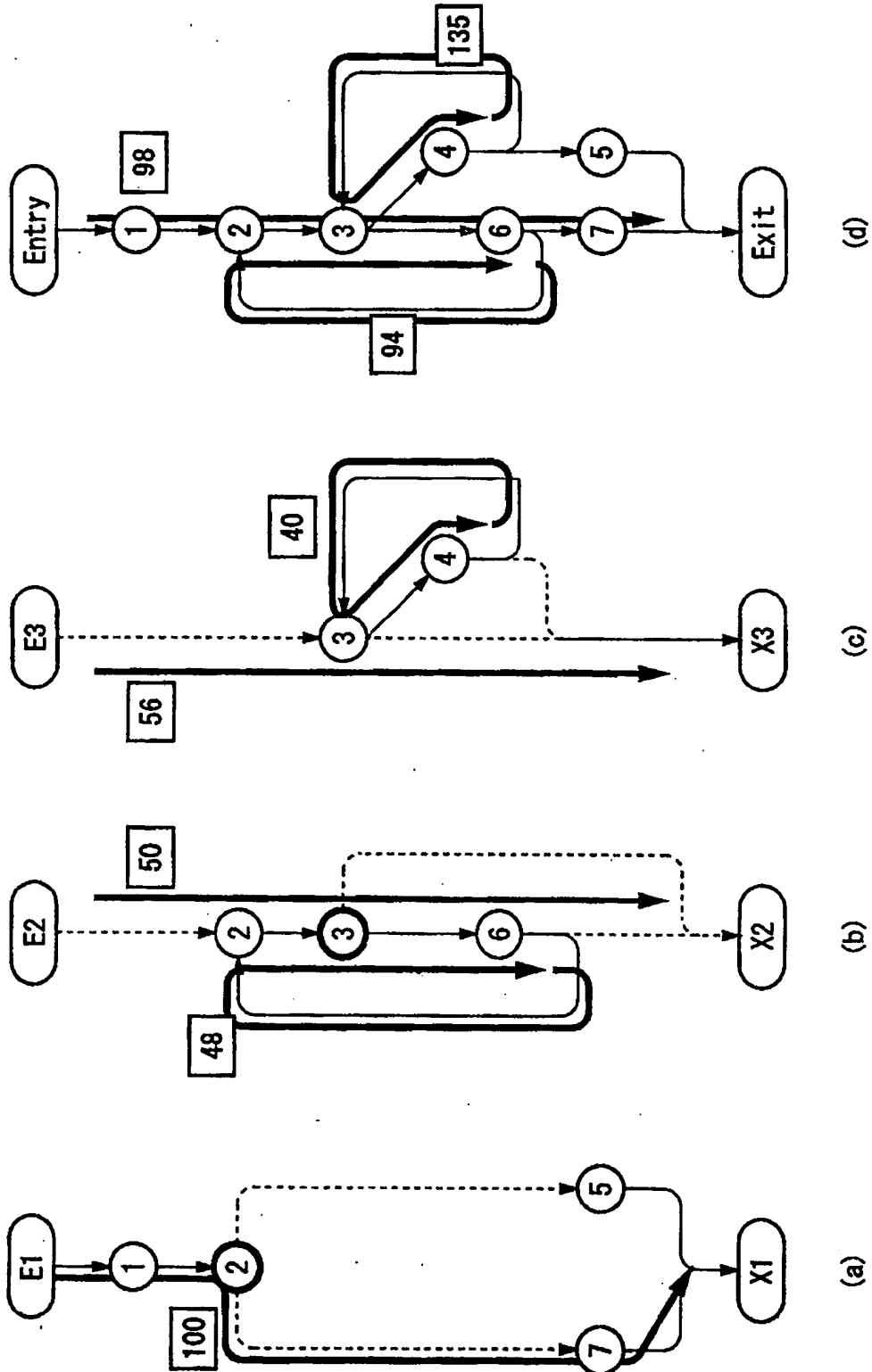
[Figure 8]

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Structure graph	Execution path of the structure graph		Determined value	Execution information	Number of times of actual execution
	Identification information	Execution path			
Outline structure graph	1	E1-1-2-7-X1	100	100.0	10000
	2	E1-1-2-5-X1	0	0.0	0
In-outer loop structure graph	3	E2-2-3-X2	0	0.0	0
	4	E2-2-3-6-X2	50	98.0	9800
	5	E2-2-3-6-(2)	1	2.0	200
	6	(6)-2-3-X2	0	0.0	0
	7	(6)-2-3-6-X2	1	2.0	200
	8	(6)-2-3-6-(2)	48	94.1	9600
In-inner loop structure graph	9	E3-3-4-X3	0	0.0	0
	10	E3-3-4-(3)	2	6.8	683
	11	E3-3-X3	56	189.3	19117
	12	(4)-3-4-X3	0	0.0	0
	13	(4)-3-4-(3)	40	135.2	13660
	14	(4)-3-X3	2	6.8	683
Total			300	634.1	63943

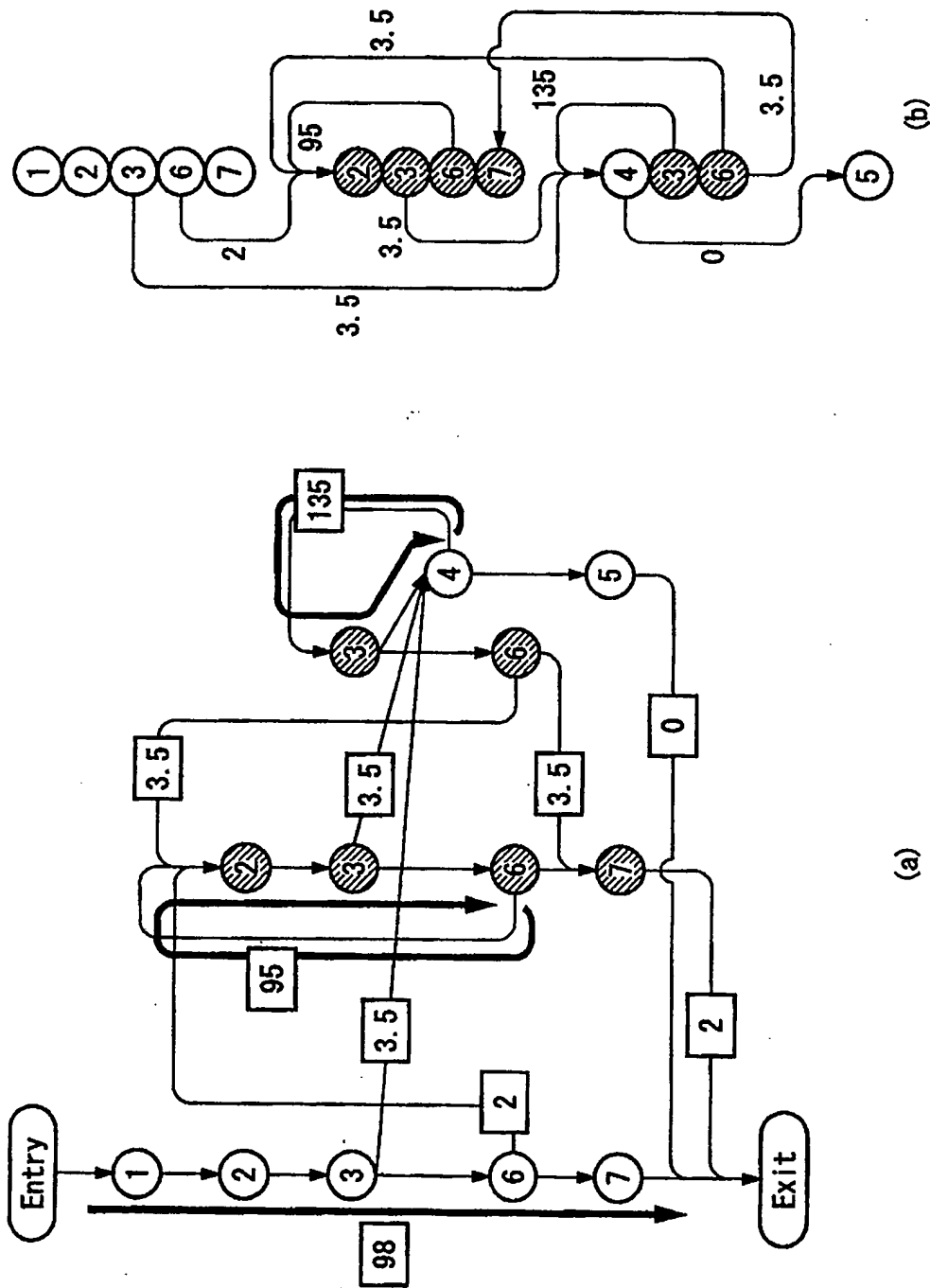
[Figure 9]

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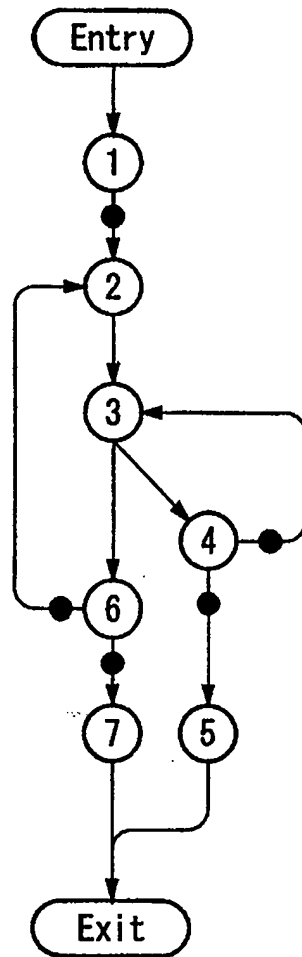
[Figure 10]

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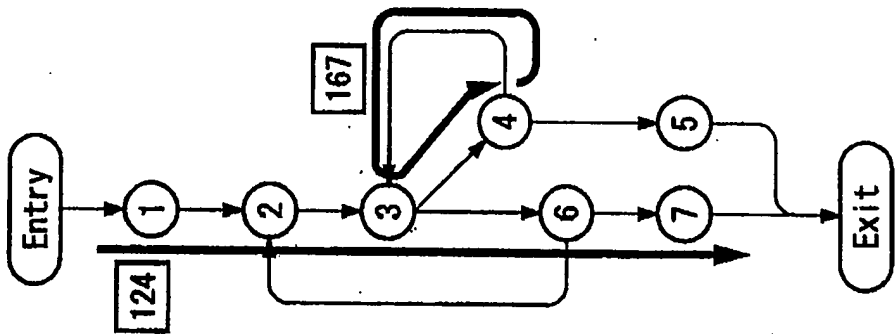
[Figure 11]

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[Figure 12]

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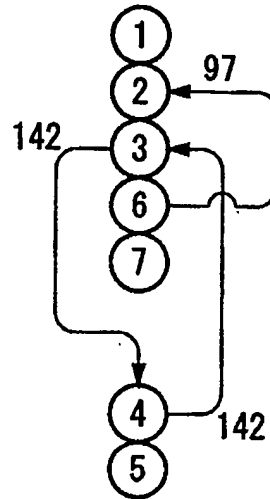


(b)

ID No.	Execution path	Determined value	Number of times of execution
1	Entry-1-2-3-4-5-Exit	0	0
2	Entry-1-2-3-4-(3)	5	345
3	Entry-1-2-3-6-7-Exit	124	9462
4	Entry-1-2-3-6-(2)	0	193
5	(4)-3-4-5-Exit	0	0
6	(4)-3-4-(3)	167	13660
7	(4)-3-6-7-Exit	4	345
8	(4)-3-6-(2)	0	338
9	(6)-2-3-4-5-Exit	0	0
10	(6)-2-3-4-(3)	0	338
11	(6)-2-3-6-7-Exit	0	193
12	(6)-2-3-6-(2)	0	9269
Total		300	34143

[Figure 13]

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[Figure 14]

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